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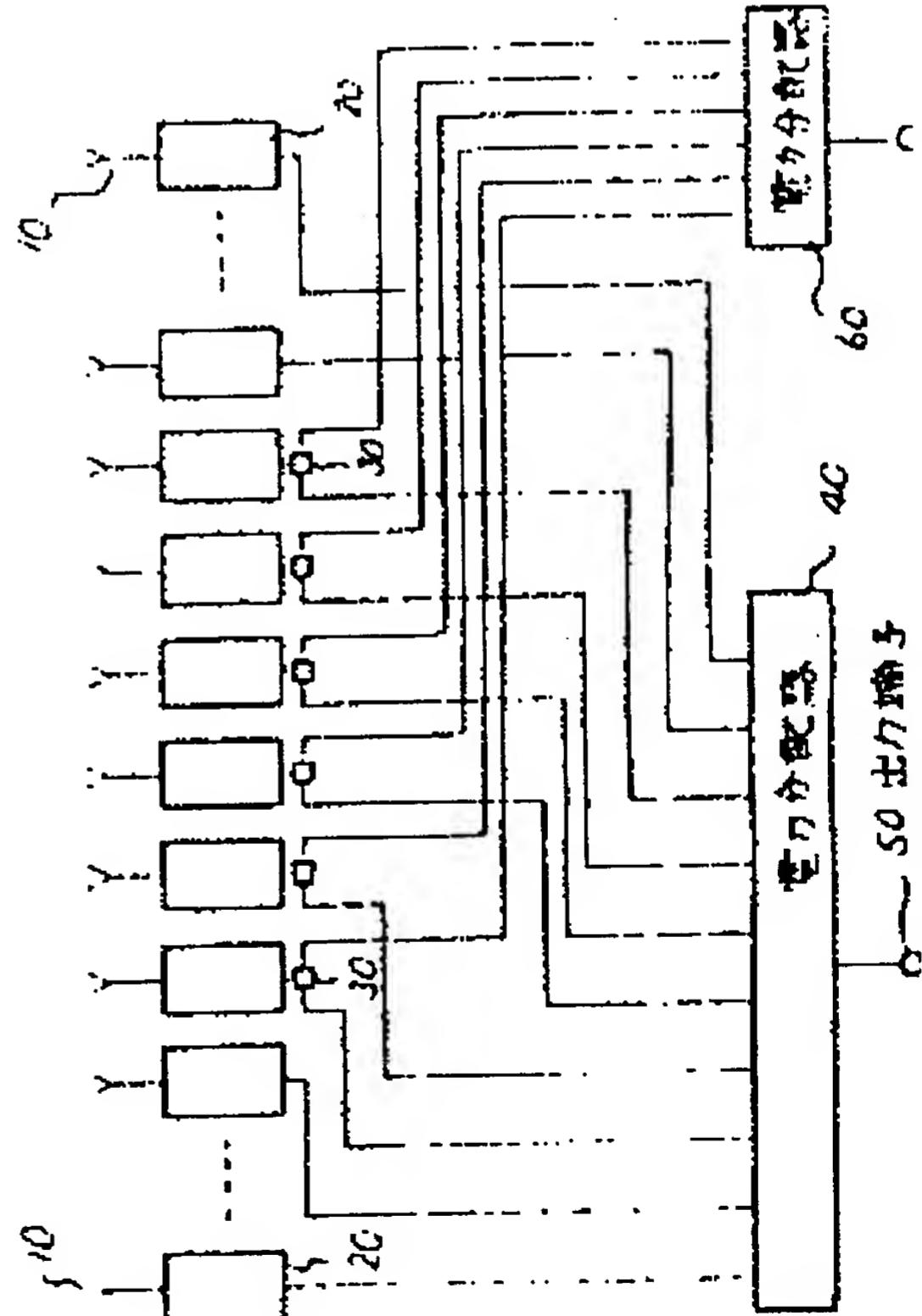
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**(54) SIDE LOBE
SUPPRESSION ANTENNA
EQUIPMENT**

(57) Abstract:

PURPOSE: To comparatively narrow a first antenna beam so as to raise a gain and to attain a side lobe suppression processing by generating a second antenna beam for side lobe suppression from the same phase center as a first antenna.

CONSTITUTION: Plural antenna radiation elements 10 constitute the first antenna forming the first antenna beams being the narrow main beams by plural reception devices 20 including beam scanning phase shifters and by a power distributor 40, and the outputs of the first antenna beams are transmitted to an output terminal 50. The second antenna uses several antennas selected from plural antenna radiation elements 10 so that the phase center is made to coincide with the first antenna and takes out a reception output by providing distributors by two 30 on the output-side of the antenna radiation elements. Thus, the outputs by the second antenna beams can be



obtained by obtaining the outputs from an output terminal 70 through a power distributor 60.

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